

WHAT IS CLAIMED IS:

1. A tissue product comprising a tissue paper and a moisturizing and lubrication composition, said moisturizing and lubricating composition comprising from about 1% (by weight) to about 40% (by weight) of an emollient, from about 5 1% (by weight) to about 20% (by weight) of a humectant, from about 30% (by weight) to about 90% (by weight) an immobilizing agent, and from about 1% (by weight) to about 40% (by weight) of a compatibilizing agent wherein no more than about 50% (by weight) of the components are liquid at 10 room temperature and no less than about 50% of the components are solid at room temperature, and wherein at least about 85% (by weight) of the components of the moisturizing and lubricating composition form a single phase at a temperature of from about 45°C to about 80°C.

2. The tissue product as set forth in claim 1 wherein the emollient is selected from the group consisting of petroleum based emollients, fatty acids, fatty acid esters, vegetable oils, hydrogenated vegetable oils, alkyl 5 ethoxylates, fatty alcohols, silicones, and combinations thereof.

3. The tissue product as set forth in claim 2 wherein the silicones are selected from the group consisting of dimethicone, dimethoconol, PEG dimethicone, alkyl silicones, phenyl silicones, silicone phospholipids, and combinations 5 thereof.

4. The tissue product as set forth in claim 1 wherein the humectant is present in an amount of from about 5% (by weight) to about 15% (by weight).

5. The tissue product as set forth in claim 1 wherein the humectant is selected from the group consisting of N-Acetyl ethanolamine, urocanic acid, aloe vera gel, arginine PCA, chitosan PCA, copper PCA, corn glycerides, dimethyl
5 imidazolidinone, fructose, glucamine, glucose, glucose glutamate, glucuronic acid, glutamic acid, glycereth-7, glycereth-12, glycereth-20, glycereth-26, glycerin, honey, hydrogenated honey, hydrogenated starch hydrolysates, hydrolyzed corn starch, lactamide MEA, lactic acid, lactose
10 lysine PCA, mannitol, methyl gluceth-10, methyl gluceth-20, PCA, PEG-2 lactamide, PEG-10 propylene glycol, polyamino sugar condensate, potassium PCA, propylene glycol, propylene glycol citrate, polyamino acid, polysaccharide, saccharide hydrolysate, saccharide isomerate, sodium aspartate, sodium
15 lactate, sodium PCA, sorbitol, TEA-lactate, TEA-PCA, Urea, Xylitol, and mixtures thereof.

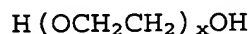
6. The tissue product as set forth in claim 1 wherein the humectant is selected from the group consisting of polyols, glycerine, ethoxylated glycerine, polyethylene glycols, hydrogenated starch hydrolysates, propylene glycol,
5 silicone glycol, pyrrolidone carboxylic acid, and mixtures thereof.

7. The tissue product as set forth in claim 1 wherein the humectant is glycerin.

8. The tissue product as set forth in claim 1 wherein the immobilizing agent is present in an amount of from about 40% (by weight) to about 70% (by weight).

9. The tissue product as set forth in claim 1 wherein the immobilizing agent is selected from the group consisting of C₁₄-C₂₂ fatty alcohols, C₁₂-C₂₂ fatty acids, solid fatty acid esters, C₁₂-C₂₂ fatty alcohol ethoxylates having an

- 5 average degree of ethoxylation ranging from about 2 to about 30, and high molecular weight polyethylene glycols having the formula:



- wherein x is the degree of ethoxylation and is an average
10 value of at least about 20 moles.

10. The tissue product as set forth in claim 9 wherein the polyethylene glycols are selected from the group consisting of PEG 1000, PEG 3350, PEG 6000, PEG 8000, and PEG 10,000.

11. The tissue product as set forth in claim 9 wherein the fatty alcohol is selected from the group consisting of cetyl alcohol, cetearyl alcohol, stearyl alcohol, behenyl alcohol, and mixtures thereof.

12. The tissue product as set forth in claim 1 wherein the compatibilizing agent is selected from the group consisting of propylene glycol, butylene glycol, 1,3 butylene glycol, low molecular weight polyethylene glycols (molecular
5 weights of less than about 720 and liquid at room temperature), methoxyisopropanol, dipropylene glycol propyl ether, dipropylene glycol butyl ether, dipropylene glycol, methyl propanediol, and soluble/dispersible polypropylene glycols, and combinations thereof.

13. The tissue product as set forth in claim 1 wherein the moisturizing and lubricating composition further comprises a dispersing agent.

14. The tissue product as set forth in claim 13 wherein the dispersing agent is selected from the group consisting of polyether ethoxylated/propoxylated modified polydimethylsiloxanes which are fully or partially compatible

- 5 with polydimethylsiloxanes, silicone polyethers having at least 30% siloxane, between 10% and 40% ethoxylation and between 0% and 40% propoxylation and combinations thereof.

15. The tissue product as set forth in claim 1 wherein the moisturizing and lubricating composition further comprises a skin barrier enhancing agent in an amount of from about 0.1% (by weight) to about 30% (by weight).

16. The tissue product as set forth in claim 15 wherein the skin barrier enhancing agent is selected from the group consisting of a fat and an oil.

17. The tissue product as set forth in claim 15 wherein the skin barrier enhancing agent is selected from the group consisting of apricot kernel oil, avocado oil, babassu oil, borage seed oil, butter, C₁₂-C₁₈ acid triglyceride, camellia
5 oil, canola oil, caprylic/capric/lauric triglyceride, caprylic/capric/linoleic triglyceride, caprylic/capric/stearic triglyceride, caprylic/capric triglyceride, carrot oil, cashew nut oil, castor oil, cherry pit oil, chia oil, cocoa butter, coconut oil, cod liver oil,
10 corn germ oil, corn oil, cottonseed oil, C₁₀-C₁₈ triglycerides, egg oil, epoxidized soybean oil, evening primrose oil, glyceryl triacetyl hydroxystearate, glyceryl triacetyl ricinoleate, glycosphingolipids, grape seed oil, hazelnut oil, human placental lipids, hybrid safflower oil,
15 hybrid sunflower seed oil, hydrogenated castor oil, hydrogenated castor oil laurate, hydrogenated coconut oil, hydrogenated cottonseed oil, hydrogenated C₁₂-C₁₈ triglycerides, hydrogenated fish oil, hydrogenated lard, hydrogenated menhaden oil, hydrogenated mink oil,
20 hydrogenated orange roughy oil, hydrogenated palm kernel oil, hydrogenated palm oil, hydrogenated peanut oil, hydrogenated shark liver oil, hydrogenated soybean oil, hydrogenated

tallow, hydrogenated vegetable oil, lard,
lauric/palmitic/oleic triglyceride, lesquerella oil, linseed
25 oil, macadamia nut oil, maleated soybean oil, meadowfoam seed
oil, menhaden oil, mink oil, moringa oil, mortierella oil,
neatsfoot oil, oleic/linoleic triglyceride,
oleic/palmitic/lauric/myristic/linoleic triglyceride,
oleostearine, olive husk oil, olive oil, omental lipids,
30 orange roughy oil, palm kernel oil, palm oil, peach kernel
oil, peanut oil, pengawar djambi oil, pentadesma butter,
phospholipids, pistachio nut oil, placental lipids, rapeseed
oil, rice bran oil, safflower oil, sesame oil, shark liver
oil, shea butter, soybean oil, sphingolipids, sunflower seed
35 oil, sweet almond oil, tall oil, tallow, tribehenin,
tricaprin, tricaprylin, triheptanoin,
trihydroxymethoxystearin, trihydroxystearin, triisononanoin,
triisostearin, trilaurin, trilinolein, trilinolenin,
trimyristin, trioctanoin, triolein, tripalmitin, trisebacin,
40 tristearin, triundecanoin, vegetable oil, walnut oil, wheat
bran lipids, wheat germ oil, zadoary oil, and mixtures
thereof.

18. The tissue product as set forth in claim 15 wherein
the moisturizing and lubricating composition further
comprises an antioxidant in an amount of from about 0.05% to
about 5%.

19. The tissue product as set forth in claim 18 wherein
the antioxidant is selected from the group consisting of
natural and synthetic tocopherol, butylated hydroxyanisole
(BHA), butylated hydroxytoluene (BHT), carotenoids, filtered
5 wheat germ oil, gamma oryzanol, sodium sulfite, grape seed
extract, green tea extract, rosmarinic acid, ubiquinone, lipoic
acid, N-acetyl-cysteine, avocado, sage, proanthocyanidins,
and mixtures thereof.

20. The tissue product as set forth in claim 18 wherein the antioxidant is selected from the group consisting of natural and synthetic tocopherol, butylated hydroxytoluene, gamma oryzanol, and mixtures thereof.

21. The tissue product as set forth in claim 1 wherein the moisturizing and lubricating composition further comprises a sterol or sterol derivative in an amount of from about 0.1% (by weight) to about 10% (by weight).

22. The tissue product as set forth in claim 21 wherein the sterol or sterol derivative is selected from the group consisting of cholesterol sulfate, cholesterol, sitosterol, stigmasterol, ergosterol, C₁₀-C₃₀ cholesterol/lanosterol esters, cholecalciferol, cholesteryl hydroxystearate, 5 cholesteryl isostearate, cholesteryl stearate, 7-dihydrocholesterol, dihydrocholesterol, dihydrocholesteryl octyldecanoate, dihydrolanosterol, dihydrolanosteryl octyldecanoate, ergocalciferol, tall oil sterol, soy sterol 10 acetate, lanosterol, soy sterol, avocado sterols, cholesterol esters, sterol esters, and mixtures thereof.

23. The tissue product as set forth in claim 1 wherein the moisturizing and lubricating composition further comprises a ceramide.

24. The tissue product as set forth in claim 23 wherein the ceramide is glucosylceramide.

25. The tissue product as set forth in claim 1 wherein the moisturizing and lubricating composition further comprises one or more components selected from the group consisting of emulsifiers, surfactants, water, viscosity 5 modifiers, pH modifiers, enzyme inhibitors/inactivators, suspending agents, pigments, dyes, colorants, buffers,

perfumes, natural moisturizing factors, antibacterial
actives, antifungal actives, pharmaceutical actives, film
formers, deodorants, opacifiers, astringents, solvents,
10 organic acids, preservatives, antiviral actives, drugs,
vitamins, aloe vera, and panthenol.

26. The tissue product as set forth in claim 1 wherein
the moisturizing and lubricating composition has a melting
point of from about 55°C to about 75°C.

27. The tissue product as set forth in claim 1 wherein
the moisturizing and lubricating composition has a
penetration hardness of from about 1 millimeter to about 20
millimeters.

28. The tissue product as set forth in claim 1 wherein
at least about 90% (by weight) of the components of the
moisturizing and lubricating composition form a single phase
at a temperature of from about 45°C to about 80°C.

29. The tissue product as set forth in claim 1 wherein
at least about 94% (by weight) of the components of the
moisturizing and lubricating composition form a single phase
at a temperature of from about 45°C to about 80°C.

30. The tissue product as set forth in claim 1 wherein
at least about 97% (by weight) of the components of the
moisturizing and lubricating composition form a single phase
at a temperature of from about 45°C to about 80°C.

31. A tissue product comprising a tissue paper and a
moisturizing and lubrication composition comprising from
about 1% (by weight) to about 40% (by weight) of a silicone,
from about 1% (by weight) to about 20% (by weight) of a
5 humectant, from about 30% (by weight) to about 90% (by
weight) an immobilizing agent, from about 1% (by weight) to

about 40% (by weight) of a compatibilizing agent and a dispersing agent wherein no more than about 50% (by weight) of the components are liquid at room temperature and no less
10 than about 50% of the components are solid at room temperature, and wherein at least about 85% (by weight) of the components of the moisturizing and lubricating composition form a single phase at a temperature of from about 45°C to about 80°C.

32. The tissue product as set forth in claim 31 wherein the weight ratio of silicone to dispersing agent is at least about 1:1.

33. The tissue product as set forth in claim 31 wherein the dispersing agent is Dow Corning 5329.

34. The tissue product as set forth in claim 31 wherein the silicone is selected from the group consisting of dimethicone, dimethoconol, PEG dimethicone, alkyl silicones, phenyl silicones, silicone phospholipids, and combinations
5 thereof.

35. The tissue product as set forth in claim 31 wherein the humectant is present in an amount of from about 5% (by weight) to about 15% (by weight).

36. The tissue product as set forth in claim 31 wherein the humectant is selected from the group consisting of N-Acetyl ethanolamine, urocanic acid, aloe vera gel, arginine PCA, chitosan PCA, copper PCA, corn glycerides, dimethyl
5 imidazolidinone, fructose, glucamine, glucose, glucose glutamate, glucuronic acid, glutamic acid, glycereth-7, glycereth-12, glycereth-20, glycereth-26, glycerin, honey, hydrogenated honey, hydrogenated starch hydrolysates, hydrolyzed corn starch, lactamide MEA, lactic acid, lactose
10 lysine PCA, mannitol, methyl gluceth-10, methyl gluceth-20,

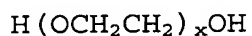
PCA, PEG-2 lactamide, PEG-10 propylene glycol, polyamino
sugar condensate, potassium PCA, propylene glycol, propylene
glycol citrate, polyamino acid, polysaccharide, saccharide
hydrolysate, saccharide isomerase, sodium aspartate, sodium
15 lactate, sodium PCA, sorbitol, TEA-lactate, TEA-PCA, Urea,
Xylitol, and mixtures thereof.

37. The tissue product as set forth in claim 31 wherein
the humectant is selected from the group consisting of
polyols, glycerine, ethoxylated glycerine, polyethylene
glycols, hydrogenated starch hydrolysates, propylene glycol,
5 silicone glycol, pyrrolidone carboxylic acid, and mixtures
thereof.

38. The tissue product as set forth in claim 31 wherein
the humectant is glycerin.

39. The tissue product as set forth in claim 31 wherein
the immobilizing agent is present in an amount of from about
40% (by weight) to about 70% (by weight).

40. The tissue product as set forth in claim 31 wherein
the immobilizing agent is selected from the group consisting
of C₁₄-C₂₂ fatty alcohols, C₁₂-C₂₂ fatty acids, solid fatty
acid esters, C₁₂-C₂₂ fatty alcohol ethoxylates having an
5 average degree of ethoxylation ranging from about 2 to about
30, and high molecular weight polyethylene glycols having the
formula:



wherein x is the degree of ethoxylation and is an average
10 value of at least about 20 moles.

41. The tissue product as set forth in claim 40 wherein
the polyethylene glycols are selected from the group

consisting of PEG 1000, PEG 3350, PEG 6000, PEG 8000, and PEG 10,000.

42. The tissue product as set forth in claim 40 wherein the fatty alcohol is selected from the group consisting of cetyl alcohol, cetearyl alcohol, stearyl alcohol, behenyl alcohol, and mixtures thereof.

43. The tissue product as set forth in claim 31 wherein the compatibilizing agent is selected from the group consisting of propylene glycol, butylene glycol, 1,3 butylene glycol, low molecular weight polyethylene glycols (molecular
5 weights of less than about 720 and liquid at room temperature), methoxyisopropanol, dipropylene glycol propyl ether, dipropylene glycol butyl ether, dipropylene glycol, methyl propanediol, and soluble/dispersible polypropylene glycols, and combinations thereof.

44. The tissue product as set forth in claim 31 wherein the moisturizing and lubricating composition further comprises a skin barrier enhancing agent in an amount of from about 0.1% (by weight) to about 30% (by weight).

45. The tissue product as set forth in claim 44 wherein the skin barrier enhancing agent is selected from the group consisting of a fat and an oil.

46. The tissue product as set forth in claim 44 wherein the skin barrier enhancing agent is selected from the group consisting of apricot kernel oil, avocado oil, babassu oil, borage seed oil, butter, C₁₂-C₁₈ acid triglyceride, camellia
5 oil, canola oil, caprylic/capric/lauric triglyceride, caprylic/capric/linoleic triglyceride, caprylic/capric/stearic triglyceride, caprylic/capric triglyceride, carrot oil, cashew nut oil, castor oil, cherry pit oil, chia oil, cocoa butter, coconut oil, cod liver oil,

10 corn germ oil, corn oil, cottonseed oil, C₁₀-C₁₈
 triglycerides, egg oil, epoxidized soybean oil, evening
 primrose oil, glyceryl triacetyl hydroxystearate, glyceryl
 triacetyl ricinoleate, glycosphingolipids, grape seed oil,
 hazelnut oil, human placental lipids, hybrid safflower oil,
 15 hybrid sunflower seed oil, hydrogenated castor oil,
 hydrogenated castor oil laurate, hydrogenated coconut oil,
 hydrogenated cottonseed oil, hydrogenated C₁₂-C₁₈
 triglycerides, hydrogenated fish oil, hydrogenated lard,
 hydrogenated menhaden oil, hydrogenated mink oil,
 20 hydrogenated orange roughy oil, hydrogenated palm kernel oil,
 hydrogenated palm oil, hydrogenated peanut oil, hydrogenated
 shark liver oil, hydrogenated soybean oil, hydrogenated
 tallow, hydrogenated vegetable oil, lard,
 lauric/palmitic/oleic triglyceride, lesquerella oil, linseed
 25 oil, macadamia nut oil, maleated soybean oil, meadowfoam seed
 oil, menhaden oil, mink oil, moringa oil, mortierella oil,
 neatsfoot oil, oleic/linoleic triglyceride,
 oleic/palmitic/lauric/myristic/linoleic triglyceride,
 oleostearine, olive husk oil, olive oil, omental lipids,
 30 orange roughy oil, palm kernel oil, palm oil, peach kernel
 oil, peanut oil, pengawar djambi oil, pentadesma butter,
 phospholipids, pistachio nut oil, placental lipids, rapeseed
 oil, rice bran oil, safflower oil, sesame oil, shark liver
 oil, shea butter, soybean oil, sphingolipids, sunflower seed
 35 oil, sweet almond oil, tall oil, tallow, tribehenin,
 tricaprin, tricaprylin, triheptanoin,
 trihydroxymethoxystearin, trihydroxystearin, triisononanoin,
 triisostearin, trilaurin, trilinolein, trilinolenin,
 trimyristin, trioctanoin, triolein, tripalmitin, trisebacin,
 40 tristearin, triundecanoin, vegetable oil, walnut oil, wheat
 bran lipids, wheat germ oil, zadoary oil, and mixtures
 thereof.

47. The tissue product as set forth in claim 44 wherein the moisturizing and lubricating composition further comprises an antioxidant in an amount of from about 0.05% to about 5%.

48. The tissue product as set forth in claim 47 wherein the antioxidant is selected from the group consisting of natural and synthetic tocopherol, butylated hydroxyanisole (BHA), butylated hydroxytoluene (BHT), carotenoids, filtered
5 wheat germ oil, gamma oryzanol, sodium sulfite, grape seed extract, green tea extract, rosmarinic acid, ubiquinone, lipoic acid, N-acetyl-cysteine, avocado, sage, proanthocyanidins, and mixtures thereof.

49. The tissue product as set forth in claim 47 wherein the antioxidant is selected from the group consisting of natural and synthetic tocopherol, butylated hydroxytoluene, gamma oryzanol, and mixtures thereof.

50. The tissue product as set forth in claim 31 wherein the moisturizing and lubricating composition further comprises a sterol or sterol derivative in an amount of from about 0.1% (by weight) to about 10% (by weight).

51. The tissue product as set forth in claim 50 wherein the sterol or sterol derivative is selected from the group consisting of cholesterol sulfate, cholesterol, sitosterol, stigmasterol, ergosterol, C₁₀-C₃₀ cholesterol/lanosterol
5 esters, cholecalciferol, cholesteryl hydroxystearate, cholesteryl isostearate, cholesteryl stearate, 7-dihydrocholesterol, dihydrocholesterol, dihydrocholesteryl octyldecanoate, dihydrolanosterol, dihydrolanosteryl octyldecanoate, ergocalciferol, tall oil sterol, soy sterol
10 acetate, lanosterol, soy sterol, avocado sterols, cholesterol esters, sterol esters, and mixtures thereof.

52. The tissue product as set forth in claim 31 wherein the moisturizing and lubricating composition further comprises one or more components selected from the group consisting of emulsifiers, surfactants, water, viscosity
5 modifiers, pH modifiers, enzyme inhibitors/inactivators, suspending agents, pigments, dyes, colorants, buffers, perfumes, antibacterial actives, natural moisturizing factors, antifungal actives, pharmaceutical actives, film
10 formers, deodorants, opacifiers, astringents, solvents, organic acids, preservatives, antiviral actives, drugs, vitamins, aloe vera, and panthenol.

53. The tissue product as set forth in claim 31 wherein the moisturizing and lubricating composition has a melting point of from about 55°C to about 75°C.

54. The tissue product as set forth in claim 31 wherein the moisturizing and lubricating composition has a penetration hardness of from about 3 millimeters to about 17 millimeters.

55. The tissue product as set forth in claim 31 further comprising a ceramide.

56. The tissue product as set forth in claim 55 wherein the ceramide is a glucosylceramide.

57. The tissue product as set forth in claim 31 wherein at least about 90% (by weight) of the components of the moisturizing and lubricating composition form a single phase at a temperature of from about 45°C to about 80°C.

58. The tissue product as set forth in claim 31 wherein at least about 94% (by weight) of the components of the moisturizing and lubricating composition form a single phase at a temperature of from about 45°C to about 80°C.

59. The tissue product as set forth in claim 31 wherein at least about 97% (by weight) of the components of the moisturizing and lubricating composition form a single phase at a temperature of from about 45°C to about 80°C.